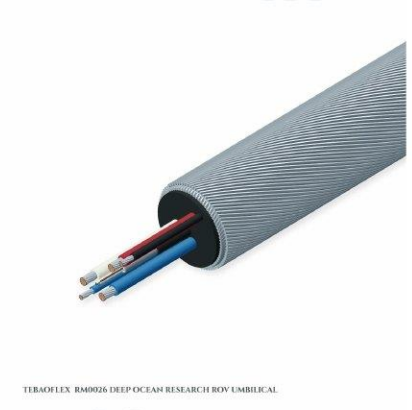
subsea ROV umbilical, AUV tether & sonar tow cable

RM0026 Deep-Ocean Research ROV

RM0026 Deep Ocean Research ROV Umbilical

DNV-ST-E402 / ITU-T G.652 · 3.0/3.3 kV · Subsea rov umbilical, auv tether & sonar tow



DNV-ST-E402 / ITU-T G.652 | 3.0/3.3 kV (-40 to +80 °C) | Double Torque-Balanced Steel Wire Ar

Application

RM0026 Deep Ocean Research ROV Umbilical featuring single-mode / multi-mode optical unit and double torque-balanced steel wire armour (DNV-ST-E402 / ITU-T G.652, 3.0/3.3 kV, -40 to +80 °C, min. bend radius 12 × OD).

Typical uses: Work-Class & Observation ROV Umbilicals and TMS Tethers, Offshore Aquaculture Net Cleaners & Subsea Cage Inspection, AUV, Ocean Glider & Expendable Spool-Payoff Micro-Tethers, USV Towed Sonar Arrays, Seabed Crawlers & Subsea Trenchers

Construction



TEBAOFLEX RM0026 DEEP OCEAN RESEARCH ROV UMBILICAL



Cross-section, not to scale

1. Single-Mode / Multi-Mode Optical Unit
2. Power & Control Copper Conductors
3. Double Torque-Balanced Steel Wire Armour

Technical data

Typical values

Rated voltage / operating system	3.0/3.3 kV (DNV-ST-E402 RM0026 6,000m Deep-Ocean Research ROV Umbilical Specification)	**Core / conductor construction**	Single-Mode / Multi-Mode Optical Unit — Hermetic stainless-steel tube / tight-buffered optical unit
Primary dielectric / optical buffer	Power & Control Copper Conductors — Stranded copper conductors with Cross-linked polyethylene (XLPE) insulation	**Continuous operating temperature**	−40…+80 °C (submerged seawater & topside deck service)
Hydrostatic & thermal cycling endurance	Verified cold-bend and wet dielectric stability across −40…+80 °C per DNV-ST-E402 RM0026 6,000m Deep-Ocean Research ROV Umbilical Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Double Torque-Balanced Steel Wire Armour — Contra-helical high-tensile galvanized steel wire armour	**Minimum bending radius**	12 × OD
Reinforcement / screen / bedding layer	Power & Control Copper Conductors — Stranded copper conductors with Cross-linked polyethylene (XLPE) insulation	**Seawater, hydrolysis & oil resistance**	Resistant to permanent seawater immersion, hydrolysis, hydraulic oil and bio-fouling per DNV-ST-E402 RM0026 6,000m Deep-Ocean Research ROV Umbilical Specification
Hydrostatic pressure & water blocking	Radial and longitudinal water-blocking integrity verified per DNV-ST-E402 RM0026 6,000m Deep-Ocean Research ROV Umbilical Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DNV-ST-E402 RM0026 6,000m Deep-Ocean Research ROV Umbilical Specification		

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Max. pulling kN ≈	Min. bend R mm
RM0026 Deep-Ocean Research ROV Construction Schedule (−40…+80 °C) 3 sizes						
☐ RM0026 Deep-Ocean Research ROV 3×6 + 4×SM + 2TP	3×6 mm² Power + 4×SM Fiber + 2×2×0.75	SnCu + Gel Tube + Contra-Helical GSWA	20.8	1,280	115.0	250
☐ RM0026 Deep-Ocean Research ROV 3×10 + 6×SM + 4TP	3×10 mm² Power + 6×SM Fiber + 4×2×0.75	SnCu + SS Tube + Double Steel Armour	25.4	1,890	185.0	305
☐ RM0026 Deep-Ocean Research ROV 3×16 + 8×SM/MM	3×16 mm² Power + 8×SM/MM + 3×2×1.0	SnCu + SS Tube + Heavy GSWA Pack	30.2	2,680	260.0	365

– Custom core counts, optical fiber channels, wet-mate terminations and continuous winch lengths available per DNV-ST-E402 RM0026 6,000m Deep-Ocean Research ROV Umbilical Specification.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance / Load	Operating temp.
3×6 mm² Power + 4×SM Fiber + 2×2×0.75	3.30	3.0/3.3 kV · 115 kN MBS	−40…+80 °C
3×10 mm² Power + 6×SM Fiber + 4×2×0.75	1.91	3.0/3.3 kV · 185 kN MBS	−40…+80 °C
3×16 mm² Power + 8×SM/MM + 3×2×1.0	1.21	3.0/3.3 kV · 260 kN MBS	−40…+80 °C

– Every production length undergoes routine conductor DC resistance / OTDR optical attenuation, AC dielectric and dimensional verification.

Standards and approvals

- DNV-ST-E402 / ITU-T G.652 Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/rm0026-deep-ocean-research-rov-umbilical

Typical values for this cable type, based on DNV-ST-E402 RM0026 6,000m Deep-Ocean Research ROV Umbilical Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.